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(54) Title: NOVEL BACILLUS 029CEL CELLULASE

The translated 029cel protein composed of 581 amino acids

MNFSLPPIRFF	GIGPTAGFFL	LLMGSSALVA	STHTDKIRID	QFGYPADATK	50
VAVIADPQIG	WNSAESYSPG	ATLEVRRVND	GVVVFSGSPV	PWNGGAIHIQ	100
SGDRVWWFDF	TVVAEPGHYR	IHDPANNTHS	DSFAIGADV	DVVLREAVRM	150
FFYQSRGFAK	EVPIAHANWA	DAASHPQDVA	SRPIWDMGNA	SLERDLSSGW	200
FDAGDFENKYS	EWTRGVILEL	LLAYQGRPDV	FTDDFGIPES	GNGVPDLLDE	250
VKWGMDWLLR	MQEPGAILG	KSVTGHQSA	SPPSTDTHPR	YYGPVSTEAT	300
AMAAAFAALG	ATVFESVGMS	DYAVTLESAA	IAAWNWTMVH	PHVPFDNTGF	350
ASVSPSRNAH	DTLANRVMAA	AMLFERTGGA	VYRDFFDVRY	LDMEPVQWWY	400
FFPFQGELQK	ALAHYTTLPG	ATPSVSADIR	NRMAASINGG	EFLGAWNNQT	450
DAYRAYLKDQ	DYTWGSNKTG	SQAGFFFEV	RRLGLNPADA	AAHRDAAMGY	500
LHYLHGVNPM	GMVYLSNMYA	SGADRAANEI	YHHWFRDGR	GTMPSLHSTV	550
PLLVEFRAGP	NAQIQRKHS	DPRPTRA	SLP		581

(57) Abstract: The present invention provides a novel cellulase nucleic acid sequence, designated 029cel, and the corresponding 029cel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding 029cel, recombinant 029cel proteins and methods for producing the same.

WO 2004/097001 A2